Title (en)

METHOD FOR URGING WARP YARNS IN WARP TENSION ADJUSTING DEVICE OF TIRE CHORD WEAVING APPARATUS

Title (de)

VERFAHREN ZUM BEAUFSCHLAGEN MIT SPANNUNG VON KETTFÄDEN IN EINE KETTSPANNUNGSEINSTELLVORRICHTUNG EINER REIFENCORD-WEBVORRICHTUNG

Title (fr)

PROCÉDÉ POUR POUSSER DES FILS DE CHAÎNE DANS UN DISPOSITIF DE RÉGLAGE DE TENSION DE CHAÎNE DE TISSAGE DE CORDE DE PNEU

Publication

EP 3208372 A3 20171101 (EN)

Application

EP 17000559 A 20130506

Priority

• JP 2012120041 A 20120525
• EP 13002405 A 20130506

Abstract (en)

[origin: EP2666895A2] A tire chord weaving apparatus (1) includes a warp tension adjusting device (3) and a loom (4). The warp tension adjusting device (3) includes a dancer roller (10a, 10b) for equalizing tensions of warp yarns drawn from the creel device (2) and a dropper device (8) disposed upstream of the dancer roller (10a, 10b). The loom (4) weaves a tire chord fabric from the warp yarns supplied via the warp tension adjusting device (3). In the tire chord weaving apparatus (1), by using an urging roller (10a) that moves up and down and that is disposed above the warp yarns so as to extend in a direction perpendicular to a direction in which the warp yarns are fed and an urging device (11) including a fluid-pressure cylinder (15) for applying an urging force (F) to the urging roller (10a) in such a direction that the urging roller (10a) is lowered, the urging force (F) is applied to the urging roller (10a) over a period from a first time after a time at which the loom (4) is stopped to a time at which the loom (4) is restarted.

IPC 8 full level

D03D 35/00 (2006.01); **D03D 49/16** (2006.01); **D03D 51/00** (2006.01)

CPC (source: EP)

D03D 35/00 (2013.01); **D03D 49/16** (2013.01); **D03D 51/002** (2013.01); D10B 2505/022 (2013.01)

Citation (search report)

• [AD] US 6016850 A 20000125 - ZIMMERMANN EWALD [DE], et al
• [A] DE 19703002 A1 19980730 - LIBA MASCHF [DE]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2666895 A2 20131127; **EP 2666895 A3 20161019**; **EP 2666895 B1 20180221**; CN 103422232 A 20131204; CN 103422232 B 20160302; CN 203229712 U 20131009; EP 3208372 A2 20170823; EP 3208372 A3 20171101; JP 2013245418 A 20131209; JP 6118508 B2 20170419

DOCDB simple family (application)

EP 13002405 A 20130506; CN 201310174234 A 20130513; CN 201320256209 U 20130513; EP 17000559 A 20130506; JP 2012120041 A 20120525